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APPLICATION NO.	FI	ILING DATE	FIRST NAMED INVENTOR	9	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,287 07/23/2003		07/23/2003	Jung Kook Park		CU-3301 RJS	7895
26530	7590	05/25/2006			EXAM	INER
LADAS & PARRY LLP					XIAO, KE	
224 SOUTH I	MICHIG.	AN AVENUE				
SUITE 1600				ART UNIT	PAPER NUMBER	
CHICAGO II. 60604					2629	

DATE MAILED: 05/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/625,287	PARK ET AL.
Office Action Summary	Examiner	Art Unit
	Ke Xiao	2629
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO ute, cause the application to become A	ICATION.  I reply be timely filed  INTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>28</u> 2a)□ This action is <b>FINAL</b> . 2b)⊠ The 3)□ Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal ma	• •
Disposition of Claims	LA parto Quayro, 1000 O.	5. 11, 400 0.3. 210.
4)  Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed.  5)  Claim(s) 1 and 3-10 is/are allowed.  6)  Claim(s) 2 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 28 March 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the I	: a)  accepted or b)  other of accepted or b)  other of accepted or b)  other of accepted in accepted if the drawing the drawing accepted if the drawing accepted or b)  other or accepted in the drawing accepted in the drawing accepted or b)  other or accepted o	ince. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority docume</li> <li>2. Certified copies of the priority docume</li> <li>3. Copies of the certified copies of the priority application from the International Bure</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been received.  nts have been received in a light in the ligh	Application No n received in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)		Summary (PTO-413)
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date</li> </ol>	_	(s)/Mail Date Informal Patent Application (PTO-152)

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#### **DETAILED ACTION**

### **Drawings**

The drawings were received on March 28<sup>th</sup>, 2006. These drawings are not completely accepted:

Regarding the changes made to Figure 3, the new figure does not match with the detailed specification because there is no longer a switch at shift register 31. The old Figure 3 filed on July 23<sup>rd</sup> 2003 was more accurate according to the detailed specification. The following informalities still exist in the *old* Figure 3:

STV2 needs to be extended further down to connect with the third bus line from the left in order to supply element 240;

Element 220 should contain switches SW1 thought SW29 corresponding to shift registers SR2 through SR30; and

Element 220 should contain switches SW30 thought SW59 corresponding to shift registers SR31 through SR60.

Amendments to all other figures are accepted.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claim 2 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding Claim 2, the claim recites the limitation "wherein the active address interval is driven at 85 Hz when a refresh rate is 60 Hz". However there is no support for such a limitation in the detailed specification and no explanation of how the device would operate under such a limitation. The well known definition of frequency in the art is how many times a full period of a signal is repeated during a fixed time period, usually one second. And according to the detailed specification the refresh rate is 60 Hz which is controlled by the V\_sync which has a full period of 16.7ms (Fig. 6), and the active address interval is driven at 60 Hz as well which is controlled by the CPV which has a full period of 16.7ms (11.2ms + 5.5 ms) the same as the V\_sync (Fig. 6). Further according to the detailed specification the refresh rate as well as the active address interval *must* be synced with one another in order for the display to be operable.

#### Allowable Subject Matter

Claims 1 and 3-10 are allowed.

Regarding independent **Claim 1**, prior art (Nose, Fig. 13) teaches all limitations of the claim except a current boosting section for increasing current amount supplied to the gate bus lines during the vertical blanking period interval in response to a pulse width modulation signal. It is noted that prior art does show a current boosting section

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responsive to a pulse width modulation signal. However said current boosting section is

not used to supply gate bus lines and is not operational during a vertical blanking period

as claimed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ke Xiao whose telephone number is (571) 272-7776.

The examiner can normally be reached on Monday through Friday from 8:30AM to

5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

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Business Center (EBC) at 866-217-9197 (toll-free).

May 17<sup>th</sup>, 2006 - kx -

SUMATI LEFKOWITZ SUPFRVISORY PATENT EXAMINER

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